

IN THE CLAIMS:

Please amend the claims as follows.

- 4,
- [c1] (Currently Amended) A drill bit comprising:
a bit body having at least one blade thereon; and
at least one polycrystalline diamond compact cylindrical cutting element disposed on the
at least one blade, wherein a diameter of the at least one polycrystalline diamond
compact cylindrical cutting element is within a range of greater than 20.0 mm, but
less than 25.0 mm,
wherein the at least one polycrystalline diamond compact cylindrical cutting element
comprises a substrate and a polycrystalline diamond layer thereon, and an
interface between the substrate and the diamond layer being non-planar.
- [c2] (Cancelled)
- [c3] (Currently Amended) The drill bit of claim 1, wherein the at least one polycrystalline
diamond compact ~~utter~~ cylindrical cutting element comprises a polycrystalline diamond
layer having a thickness between 0.140 inches and 0.240 inches.
- [c4] (Original) The drill bit of claim 3, wherein the polycrystalline diamond layer has a
thickness of 0.180 inches.
- [c5] (Currently Amended) The drill bit of claim 1, wherein the diameter of the at least one
polycrystalline diamond compact cylindrical cutting element is within a range of about
21.0 mm to 23.0 mm.
- [c6] (Currently Amended) The drill bit of claim 4, wherein the diameter of the at least one
polycrystalline diamond compact cylindrical cutting element is 22.0 mm.
- [c7] (Currently Amended) The drill bit of claim 1, wherein the at least one polycrystalline
diamond compact ~~utter~~ cylindrical cutting element has a substantially elliptical shape
and the diameter of the at least one polycrystalline diamond compact ~~utter~~ cylindrical
cutting element is defined with respect to a major axis thereof.

- [c8] (Currently Amended) The drill bit of claim 7, wherein the at least one polycrystalline diamond compact ~~utter~~ cylindrical cutting element has a major axis having a diameter of 22.0 mm.
- [c9] (Currently Amended) The drill bit of claim 1, wherein an exposure of the at least one polycrystalline diamond compact ~~utter~~ cylindrical cutting element is greater than 11.0 mm.
- [c10] (Currently Amended) A drill bit comprising:
a bit body having at least one blade thereon; and
at least one polycrystalline diamond compact cylindrical cutting element disposed on the
at least one blade, the at least one polycrystalline diamond compact comprising:
a polycrystalline diamond layer;
substrate bonded to the polycrystalline diamond layer, an interface surface
between the diamond layer and the substrate being non-planar; and
wherein a diameter of the at least one polycrystalline diamond compact
cylindrical cutting element is greater than 20.0 mm.
- [c11] (Original) The drill bit of claim 10, wherein the polycrystalline diamond layer has a thickness between 0.140 inches and 0.240 inches.
- [c12] (Original) The drill bit of claim 11, wherein the polycrystalline diamond layer has a thickness of about 0.180 inches.
- [c13] (Currently Amended) The drill bit of claim 10, wherein the diameter of the at least one polycrystalline diamond compact cylindrical cutting element is within a range of about 21.0 mm to 23.0 mm.
- [c14] (Currently Amended) The drill bit of claim 13, wherein the diameter of the at least one polycrystalline diamond compact cylindrical cutting element is 22.0 mm.
- [c15] (Currently Amended) The drill bit of claim 10, wherein the at least one polycrystalline diamond compact ~~utter~~ cylindrical cutting element has a substantially elliptical shape

and the diameter of the ~~cutter~~ cylindrical cutting element is defined with respect to a major axis thereof.

[c16] (Currently Amended) The drill bit of claim 15, wherein the at least one polycrystalline diamond compact ~~cutter~~ cylindrical cutting element has a major axis having a diameter of 22.0 mm.

[c17] (Original) The drill bit of claim 10, wherein an exposure is greater than 11.0 mm.

[c18] (Currently Amended) A drill bit comprising:

a bit body having at least one blade thereon; and

at least one polycrystalline diamond compact cylindrical cutting element disposed on the at least one blade, the at least one polycrystalline diamond compact comprising:

a polycrystalline diamond layer having a thickness greater than 0.140 inches;

a substrate bonded to the polycrystalline diamond layer, an interface surface between the substrate and the diamond layer being non-planar; and

wherein a diameter of the at least one polycrystalline diamond compact cylindrical cutting element is greater than 20.0 mm and is less than 25.0 mm.

[c19] (Original) The drill bit of claim 18, wherein the polycrystalline diamond layer has a thickness of between 0.140 inches and 0.240 inches.

[c20] (Original) The drill bit of claim 18 wherein the polycrystalline diamond layer has a thickness of about 0.180 inches.

[c21] (Currently Amended) The drill bit of claim 18, wherein the diameter of the at least one polycrystalline diamond compact cylindrical cutting element falls within a range of 21.0 mm to 23.0 mm.

[c22] (Currently Amended) The drill bit of claim 21, wherein the diameter of the at least one polycrystalline diamond compact cylindrical cutting element is 22.0 mm.

[c23] (Currently Amended) The drill bit of claim 18, wherein the at least one polycrystalline diamond compact ~~cutter~~ cylindrical cutting element has a substantially elliptical shape and the diameter of the ~~cutter~~ cylindrical cutting element is defined with respect to a major axis thereof.

[c24] (Currently Amended) The drill bit of claim 23, wherein the at least one polycrystalline diamond compact ~~cutter~~ cylindrical cutting element has a major axis having a diameter of 22.0 mm.

[c25] (Original) The drill bit of claim 18, wherein the exposure is greater than 11.0 mm.

[c26] (Currently Amended) A drill bit comprising:
a bit body having at least one blade thereon; and
at least one polycrystalline diamond cylindrical cutting element disposed on the at least one blade, the at least one polycrystalline diamond cutting element having an exposure greater than 11.0 mm, the at least one polycrystalline diamond cutting element comprising:
a polycrystalline diamond layer having a thickness of greater than 0.140 inches;
a substrate bonded to the polycrystalline diamond layer, an interface surface between the diamond layer and the substrate being non-planar; and
wherein a diameter of the at least one polycrystalline diamond compact cylindrical cutting element is 22.0 mm.

[c27] (Currently Amended) A drill bit comprising:

a bit body having at least one blade thereon; and

at least one polycrystalline diamond compact cylindrical cutting element disposed on the at least one blade, wherein a diameter of the at least one polycrystalline diamond compact cylindrical cutting element is within a range of greater than 19.0 mm, but less than 25.0 mm, and a polycrystalline diamond layer of the at least one polycrystalline diamond compact cylindrical cutting element has a thickness between 0.160 inches and 0.240 inches,

wherein the at least one polycrystalline diamond compact cylindrical cutting element comprises a substrate and a polycrystalline diamond layer thereon, and an interface between the substrate and the diamond layer being non-planar.

[c28] (New) A drill bit comprising:

a bit body having at least one blade thereon; and

at least one polycrystalline diamond compact cylindrical cutting element disposed on the at least one blade, wherein a diameter of the at least one polycrystalline diamond compact cylindrical cutting element is within a range of greater than 20.0 mm, but less than 25.0 mm.
